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The Land and Fresh Water Shells of Burnley District.

List collected and compiled by F. C. Long, member of the Society.

The Committee have much pleasure in submitting to the members the following list of Land and Freshwater Shells, of the Burnley district. It has been compiled by Mr. F. C. Long, of this Society, and is the result of many years research in our district, and a vast amount of work. Some time ago, Mr. Long presented two cases to the Society, containing all the specimens named in the following valuable list, and which has not before been printed.

In the next number of the Journal the Committee intend to publish the list of Moths and Butterflies to be found in our district. This has been carefully compiled by Mr. W. G. Clutton, in conjunction with Mr. Albert Wright, member of the Society.

The names used in this list are in accordance with the list issued by "The Conchological Society of Great Britain and Ireland," New Edition, 1892, compiled by W. Nelson, W. Denison Roebuck, F.L.S., and J. W. Taylor, F.L.S.

The species named in this list have all been found within a ten-miles radius from the Burnley Town Hall, many of them (more especially the freshwater species), within the limits of the borough boundary.

Many of the local ponds are being gradually destroyed by building operations, and at no distant date, it is to be feared, many interesting species will have disappeared from this immediate locality.

The Land Shells are well represented, especially the genus "*Hyalinia*," and the "*Helices*" are very fine in colour and texture.

The total number of British species is 130. Number found in this locality, 88.

Of band variations of "*Helix nemoralis*" and "*hortensis*," the commonest are (123) (45), (12)345, (12345), and 123(45): that of "*nemoralis*" 00300 is fairly common, though no example of "*hortensis*" with this band formula has been found locally. In some districts—notably near Bristol—it is a not unusual form.

Arion ater (L.). Very common in woods and fields.

Arion hortensis (Fer.). Common in gardens.

Limax maximus (L.). Common, woods and lanes.

Limax flavus (L.). Occasionally found in woods.

Limax marginatus (Mull.). Woods and damp places.

Agriolimax agrestis (L.). Abundant everywhere.

Vitrina pellucida (Mull.). Common in hedgerows.

Hyalinia draparnaldii (Beck). Found at Clayton-le-Moors.

Hyalinia cellaria (Mull.). Common in cellars and moist places.

V. complanata (Jeff.). Not common.

V. Albus (Moq.). Rare.

Hyalinia glabra (Studor). On Whalley Nab, also in Fence Lane, and at Sabden.

V. viridans (Ckll.). Very rare, at Read.

Hyalinia alliaris (Miller). Common on hedge-banks.

Hyalinia nitidula (Drap.). Common in woods and hedgerows. Very fine at Clerkhill.

V. nitens (Mich.). Found along with the type, fairly common.

Hyalinia radiatula (Alder). In a small wood near Clayton-le-Moors; rare.

Hyalinia puia (Alder). Ightonhill and Read.

Hyalinia crystallina (Mull.). Fairly common in woods, under stones and moss.

Hyalinia fulva (Mull.). In the wood at Clerkhill, under dead leaves and decaying branches.

Hyalinia nitida (Mull.). On the canal side, near Rosegrove. Rare.

Helix rotundata (Mull.). Common everywhere in lanes, under moss and dead leaves.

V. turtoni (Flem.).

V. pyramidalis (Jeff.).

V. minor (Jeff.).

M. sclariforme. One good specimen of this taken at Read.

Helix rupestris (Drap.). Whalley, on dry stone walls.

Helix pygmaea (Drap.). Whalley, rare.

Helix aculeata (Mull.). Clerkhill. Very rare.

Helix pulchella (Mull.). Canal bank near Rosegrove.

Helix aspersa (Mull.). Whalley churchyard.

V. flammea (Picard). One good specimen taken at Whalley).

M. sinistrorsum (Taylor). A specimen taken in Whalley churchyard; now in the possession of Mr. R. Standen, of Owens College, Manchester.

Helix nemoralis (L.). Common around Simonstone, Read, Fence Lane, and Higham.

V. minor (Moq.).

V. albolabiata (Von Mart.).

V. bimarginata (Moq.).

V. rubella (Moq.).

V. libellula (Risso).

V. castaea (Moq.). Very fine at Read, also near Higham.

V. roseozonata (Ckll.).

V. hyalozonata (Taylor).

M. Sinistrorsum (Taylor). One specimen taken in Ightonhill, near Tim Bobbin.

M. sclariforme (Taylor). A very fine specimen taken in Ightonhill Lane, now in the possession of Mr. J. Russell Wildman, of Hapton.

Helix hortensis (Mull.). Common throughout the district on hedgerows, and in woods.

V. minor (Moq.). In Molly Wood, Rosegrove.

V. lutea (Moq.). Common.

V. bandonia (Taylor). A peculiar olive-green variety, first taken by Mr. R. Wigglesworth, curator of Accrington Park Museum. It is found near Clayton-le-Moors, also near Altham.

Helix armistroni (L.). Common around Simonstone and Read, also in Fence lane.

V. fusca (Fer.).

- V. canigonensis* (Boubee).
V. cincta (Taylor).
V. flavescens (Moq.).
- Helix rufescens* (Penn.). Common everywhere on hedgerows, and in woods under moss and dead leaves.
V. minor (Jeff.).
V. rubens (Moq.).
V. alba (Moq.).
- Helix hispida* L. (*H. concinna*, Jeff.). Around Whalley; very fine at Salthill, Clitheroe.
- Helix granulata* (Alder) (*H. sericea*, Jeff.). Common, and very fine, at Clerkhill and Whalley Nab; also in Fence-lane, and in Long Dick Wood, near Hapton.
- Helix fusca* (Mont.). Clerkhill Wood. Very rare.
- Buliminus obscurus* (Mull.). Ightonhill and near Whalley.
- Pupa cinerea* (Drap.). A small colony found near Stonyhurst, probably introduced by some of the students from France or Italy.
- Pupa anglica* (Fer.) (*P. ringens*, Jeff.). In Clerkhill Wood. Very rare.
- Pupa cylindracea* (Da Costa) (*P. umbilicata*, Drap.). Very abundant around Read and Whalley, also in Padiham-road, near Palace House; also in Byerden Lane and Fence.
V. Curta (Westl.).
- Vertigo alpestris* (Alder). Clerkhill, very rare.
Vertigo substriata (Jeff.). Same as last.
Vertigo edentula (Drap.). Around Whalley, and in Molly Wood, Rosegrove. Rare.
- Balea perversa* (L.). There is a record of this species having been taken at Clerkhill by a Captain Brown, in 1847. It is now to be found at Downham.
- Clausilia perversa* (Pult.) (*C. rugosa* (Drap.)). Very abundant around Whalley, also in Molly Wood.
V. gracilior (Jeff.).
V. parvula (Turt.).
- Clausilia laminata* (Mont.). Whalley, and at Cock Bridge.
Azeca tridens (Pult.). At Read, also near Fence.
V. crystallina (Dup.).
- Cochlicopa lubrica* (Mull.). Common everywhere on hedgerows and grassy banks.
V. lubricoides (Fer.).
V. hyalinia (Jeff.).
- Succinea putris* (L.). Common on the canal side, also in a swamp near Pendle stepping stones.
V. vitrea (Moq.). Pond near Harwood.
- Succinea elegans* (Risso). Around the edges of ponds near Whalley, and at Gooseleach, Simonstone.
V. Pfeifferi (Rossm.).
- Carychium minimum* (Mull.). Generally common on hedgebanks, and in woods, under moss and dead leaves.
- Segmentina nitida* (Mull.) (*Planorbis lineatus*, (Walker)). Gooseleach, Simonstone; also in pond near Harwood.
- Planorbis fontanus* (Lightfoot) Pl. *nitidus* Jeff.). In the canal at Rosegrove, ponds near Accrington, and stream near Carr Hall, Nelson.
- Planorbis nautilus* (L.). Gooseleach; also in a pond at Huncoat.
- Planorbis dilatatus* (Gould). In the Paper Works Lodge, at Stoneyholme; also in the canal, near the Tunnel End, at Gannow.
- Planorbis albus* (L.). In the canal; also in a pond at Carey's Farm, at Ightonhill.
- Planorbis parvus* (Say) (Pl. *glaber*, Jeff.). In the Paper Works Lodge, at Stoneyholme.
- Planorbis spirorbis* (Mull.). In most ponds and roadside ditches in the district.
- Planorbis vortex* (L.). Ditch near Huncoat.
- Planorbis carinatus* (Mull.). In the canal, near Rosegrove.
- Planorbis umbilicatus* (Mull.) Pl. *complanatus*, Jeff.). in the canal, also in the lodge at Lowerhouse.
- Planorbis corneus* (L.). In the canal, near Gannow.
- Planorbis contortus* (L.). In a small swampy pond at Simonstone.
- Bullinus hypnorum* (L.). In a ditch at Ightonhill.
- Physa fontinalis* (L.). In a pond near Whalley.
- Limncea peregra* (Mull.). In every pond and ditch in the district. Very variable, almost every pond having its own peculiar variety of form.
V. ovata (Drap.).
V. oblonga (Jeff.).
V. diaphana (Parr). This variety has been found in the cistern on the top of the engine house of Gannow Shed.
V. labiosa (Jeff.).
M. decollatum (Jeff.). In a pond near Harwood.
- Limncea auricularia* (L.). In the canal at Rosegrove, and in ponds near Clayton-le-Moors.
- Limncea stagnalis* (L.). In the canal at Gannow.
- Limncea palustris* (Mull.). In ponds near Accrington; also near Whalley.
V. elongata (Moq.).
- Limncea truncatula* (Mull.). In a ditch at Ightonhill.
V. microstoma (Drouet). In a small stream at Green's Clough, near Portsmouth.
- Limncea glabra* (Mull.). In a ditch at Huncoat.
- Ancylus fluviatilis* (L.). In a small stream at Stony Moor, near Hapton, also at Simonstone.
V. Albida (Jeff.). At Clayton-le-Moors. Very fine specimens.
- Neritina fluviatilis* (L.). In the canal at Brierfield.
- Viviparus contectus* (Millet). In a pond at Huncoat; also at Rishton.
- Valvata piscinalis* (Mull.). In the canal at Gannow, also in the Paper Works Lodge, at Stoneyholme.
- Unio pictorum* (L.). In the canal at Rosegrove.
V. latior (Jeff.). In canal, near Brierfield.
- Anodonta cygnea* (L.). In the Lodge at Lowerhouse; also in the canal at Rosegrove.
V. radiata (Mull.).
- Anodonta anatina* (L.). In the canal, and in a mill lodge near Brierfield.
V. Complanata (Rossm.).
V. radiata (Jeff.).
- Sphaerium corneum* (L.). Canal at Gannow; also at Gooseleach, Simonstone.
V. flavescens (Macgill).
- Sphaerium rivicola* (Leach). In the canal, at Rosegrove.
- Sphaerium pallidum* (Gray) (*S. ovale*, Jeff.). In the canal at Rosegrove; also at Clayton-le-Moors.
- Sphaerium lacustre* (Mull.). In the Paper Works Lodge, at Stoneyholme.
- Pisidium amnicum* (Mull.). In the river at Pendle Bridge.
- Pisidium fontinale* (Drap.). Ditch in Ightonhill Park Lane.
- Pisidium pusillum* (Gmelin). Ditch near Simonstone, also in pond near Rosegrove.
- Dreissena polymorpha* (Pall.). In the Lodge, at Lowerhouse.

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